

Assigned Values for Pressed Powder Pellets

AMIS0355*-P

Assigned Values

Analyte	Value	Unc. (2s)	Unit	Method
Li	7268	836	ppm	A
Nb	49	8	ppm	A
Nb	47	8	ppm	B
Rb	3347	468	ppm	A
Rb	3607	372	ppm	B
Sn	75	19	ppm	A
Sn	470	38	ppm	B
Sn	461	88	ppm	C
Ta	214	42	ppm	B
SG	2.75	0.13		D
S	0.040	0.003	g/100g	A
Al	8.06	0.29	g/100g	B
Ba	35	12	ppm	A
Ba	37	9	ppm	B
Be	156	24	ppm	A
Be	163	16	ppm	B
Bi	0.9	0.2	ppm	A
Ca	4532	506	ppm	A
Ca	4868	415	ppm	B
Ce	5	0.8	ppm	B
Co	51	6	ppm	A
Co	51	4	ppm	B
Cr	295	30	ppm	B
Cs	265	41	ppm	A
Cs	259	19	ppm	B
Cu	331	23	ppm	A
Cu	346	26	ppm	B
Dy	0.8	0.1	ppm	A
Dy	0.9	0.2	ppm	B
Fe	1.18	0.087	g/100g	A
Fe	1.25	0.067	g/100g	B
Ga	72	6	ppm	A
Ga	75	6	ppm	B
Gd	1	0.2	ppm	A
Gd	1	0.2	ppm	B
Hf	3	0.3	ppm	A
Hf	4	1	ppm	B
K	1.26	0.16	g/100g	A
K	1.33	0.091	g/100g	B

Assigned Values

Analyte	Value	Unc. (2s)	Unit	Method
La	3	0.6	ppm	B
Lu	0.03	0.02	ppm	A
Mg	8374	1248	ppm	A
Mg	9089	709	ppm	B
Mn	976	112	ppm	A
Mn	1000	19	ppm	B
Mo	1	0.2	ppm	A
Na	2.54	0.21	g/100g	A
Nd	2	0.5	ppm	A
Nd	2	0.6	ppm	B
Ni	145	15	ppm	A
Ni	150	22	ppm	B
P	413	32	ppm	A
P	431	85	ppm	B
Pb	6	2	ppm	A
Pr	0.5	0.1	ppm	A
Pr	0.6	0.4	ppm	B
Sb	0.4	0.08	ppm	A
Sc	2	0.4	ppm	A
Si	33.46	0.97	g/100g	B
Sm	1	0.2	ppm	A
Sm	1	0.4	ppm	B
Tb	0.2	0.06	ppm	A
Tb	0.2	0.09	ppm	B
Te	0.08	0.03	ppm	A
Th	4	1	ppm	A
Th	5	1	ppm	B
Ti	385	38	ppm	A
Ti	389	65	ppm	B
Tl	27	4	ppm	A
Tl	29	0.9	ppm	B
U	5	2	ppm	A
U	6	0.9	ppm	B
V	15	2	ppm	A
V	16	3	ppm	B
W	2	0.3	ppm	A
Y	4	1	ppm	A
Y	5	0.8	ppm	B
Yb	0.2	0.04	ppm	A

Assigned Values

Analyte	Value	Unc. (2s)	Unit	Method
Yb	0.2	0.09	ppm	B
Zn	85	9	ppm	A
Zn	92	27	ppm	B

Assigned Values

Analyte	Value	Unc. (2s)	Unit	Method
Zr	17	3	ppm	A
Zr	22	6	ppm	B

Assigned Values Major Oxides

Analyte	Value	Unc. (2s)	Unit	Method
Al ₂ O ₃	15.26	0.56	g/100g	B
Al ₂ O ₃	15.46	0.18	g/100g	C
CaO	0.677	0.06	g/100g	B
CaO	0.667	0.02	g/100g	C
Cr ₂ O ₃	0.044	0.004	g/100g	B
Fe ₂ O ₃	1.80	0.088	g/100g	B
Fe ₂ O ₃	1.79	0.071	g/100g	C
K ₂ O	1.58	0.056	g/100g	B
K ₂ O	1.58	0.034	g/100g	C
MgO	1.52	0.11	g/100g	B
MgO	1.49	0.067	g/100g	C

Assigned Values Major Oxides

Analyte	Value	Unc. (2s)	Unit	Method
MnO	0.13	0.00	g/100g	B
MnO	0.13	0.01	g/100g	C
Na ₂ O	3.61	0.26	g/100g	C
P ₂ O ₅	0.099	0.02	g/100g	B
P ₂ O ₅	0.099	0.01	g/100g	C
SiO ₂	71.35	1.9	g/100g	B
SiO ₂	71.90	1.2	g/100g	C
TiO ₂	0.065	0.01	g/100g	B
TiO ₂	0.067	0.01	g/100g	C
V ₂ O ₅	0.003	0.001	g/100g	B

The assigned values are from the original certificate of analysis of the original powder retrieved from <https://amis.co.za/wp-content/uploads/AMIS0355-Certificate.pdf> on 13.07.2023. Please also find background information from this. The uncertainty is given as two standard deviations (2s).

List of analytical methods used as stated in the original certificate of analysis:

- A Multi-acid digestion with either ICPOES/ICPMS/AAS finish
- B Fusion digestion with ICP finish
- C X-ray Fluorescence
- D Specific Gravity

Document History

Version	Date	Changes applied
1.0	13.07.2023	First publication

Legal notice

Our order, sales and delivery conditions apply. The valid version of our general terms and conditions (status 01.09.2019) - can be found on our website: <https://www.my-standards.com/terms-and-conditions/>. They are also available on request.

*The original manufacturer (African Mineral Standards (Pty) Ltd) is not liable for any issues occurring from the use of this material since they took no part in the manufacturing of the pellets.